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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,023	05/30/2001	Charles L. Branch	4002-2533	9301

7590 09/13/2002

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EXAMINER

PHILOGENE, PEDRO

ART UNIT

PAPER NUMBER

3732

DATE MAILED: 09/13/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/870,023

Applicant(s)

BRANCH ET AL.

Examiner

Pedro Philogene

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 63-88 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 63-88 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 01 October 2001 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 11.
- ☐ Interview Summary (PTO-413) Paper No(s). _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-4, 63-88 are rejected under 35 U.S.C. 102(e) as being anticipated by Bianchi et al. (6,033,438).

With respect to claim 1, Bianchi et al disclose a spinal fusion implant (500,500') comprising a bone portion having an upper bone engaging surface, a lower bone engaging surface; as best seen in FIGS. 10-14, a first side wall and an opposite second side wall extending between the upper and lower bone engaging surface; as seen in FIGS. 8,9; the first side wall having a portion defined by a concave surface; as best seen in the figures.

With respect to claim 2, Bianchi et al disclose an implant wherein the bone portion is formed from a donor bone segment defining at least a portion of a medullary canal and the concave surface defines a portion of the medullary canal; as set forth in the abstract; as set forth in column 5, lines 47-56.

With respect to claim 3, Bianchi et al disclose an implant wherein the upper and lower bone engaging surfaces include a roughened surface (542,632).

With respect to claim 4, Bianchi et al disclose an implant wherein the roughened surface includes grooves; as set forth in column 7, lines 50-64.

With respect to claim 63, Bianchi et al disclose a spinal fusion implant comprising an elongate bone portion having a generally rectangular cross section and defining a longitudinal axis, as best seen in FIG.16, the bone portion comprising a first bone engaging surface, a second bone engaging surface; and a first side wall extending between the first and second bone engaging surfaces, as set forth in column 8, lines 13-27, wherein the first side wall comprises a concave surface; as best seen figures.

With respect to claims 64-81, Bianchi et al disclose all the limitations, the shape of the sidewalls, ridges or teeth on the engaging surface, an end wall having a recess or a threaded bore, or a groove, adapted to engage an implant holder; as set forth in columns 7-8, lines 1-68.

With respect to claim 82, Bianchi et al disclose a spinal fusion implant comprising an elongate bone portion defining a longitudinal axis, as best seen in FIG.16, and comprising, a first side wall comprising a concave surface, a second side wall comprising a convex surface; as best seen in Fig.13, a first bone engaging surface positioned between the first and second side walls, and a second bone engaging surface opposite the first bone engaging surface; as best seen in Fig. 8-14, wherein at least one of the first or second bone engaging surfaces comprises ridges or teeth; as set forth in column 7, lines 50-64.

With respect to claim 83, Bianchi et al disclose all the limitations, as best seen in FIGS. 13.

With respect to claim 84, Bianchi et al disclose a system for spinal fusion of adjacent vertebrae, the system comprising a pair of spinal implants; as best seen in FIGS. 8,9, the spinal implants comprising an elongate bone portion having a generally rectangular cross section (FIG. 16 A-D); a first bone engaging surface, a second opposite bone engaging surface, and a first side wall extending between the first and second bone engaging surfaces , the first side wall comprising a concave portion (FIGS.8,9) the pair of implants are positioned in an intervertebral space whereby the concave portions define a chamber; as best seen in FIGS.8,9.

With respect to claims 85-88, Bianchi et al disclose all the limitations; as best seen in FIGS.8, 9, and as set forth in column 17, lines 1-50.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

WO 01/70144	9-2001	Moret
6,375,681	4-2002	Truscott
5,904,719	5-1999	Errico et al.
4,743,256	5-1988	Brantigan

Brantigan teaches rectangular cross-section plus concave and convex sidewalls.

5,645,598	7-645,598	Brosnahan, III.
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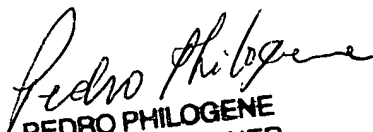
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro Philogene whose telephone number is (703)

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308-2252. The examiner can normally be reached on Monday to Friday 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P Shaver can be reached on (703) 308-2582. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 305-3591 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.


PEDRO PHILOGENE
PRIMARY EXAMINER

Pedro Philogene
September 6, 2002